

Application No.: 09/804481

Docket No.: WIBR-523-101

Amendments to The Claims

The Claim Listing below will replace all prior versions of the claims in the application.

Claim Listing

- 1-31. (Canceled)
32. (Currently amended) A recombinant vector comprising an isolated nucleotide sequence encoding an snRNA, wherein the snRNA-encoding portion of said snRNA-encoding nucleotide sequence has been modified to contain a recognition site for a Type II dual cleavage restriction enzyme capable of cleaving said nucleotide sequence once upstream of said recognition site and once downstream of said recognition site, such that digestion with a single said restriction enzyme excises from said vector a restriction fragment which includes said recognition site and forms insertion sites in said vector.
33. (Previously presented) The vector of Claim 32, wherein the snRNA is selected from the group of snRNAs with splicing functions.
34. (Previously presented) The vector of Claim 33, wherein the snRNA is U1 snRNA or U6 snRNA.
35. (Previously presented) The vector of Claim 34, wherein the snRNA is U1 and wherein said nucleotide sequence has been modified within the first 11 nucleotides of the coding region.
36. (Canceled)
37. (Canceled)
38. (Canceled)

Application No.: 09/804481

Docket No.: WIBR-523-101

39. (Currently amended) ~~The vector of Claim 32~~ A recombinant vector comprising an isolated nucleotide sequence encoding an snRNA, wherein the snRNA-encoding portion of said snRNA-encoding nucleotide sequence has been modified to contain a recognition site for restriction enzyme BaeI, such that digestion with BaeI excises from said vector a restriction fragment which includes said recognition site and forms insertion sites in said vector wherein the restriction enzyme is BaeI.
40. (Previously presented) The vector of Claim 39, wherein the insertion sites comprise the complements of DNA sequences of SEQ ID NO: 2 and SEQ ID NO: 3.
41. (Previously presented) The vector of Claim 32 wherein digestion with the restriction enzyme excises a double stranded restriction fragment with single stranded overhangs at each end, and wherein the insertion sites comprise single stranded overhangs which are complementary to the single stranded overhangs of the restriction fragment.
42. (Currently amended) A recombinant vector comprising an isolated nucleotide sequence encoding an snRNA, wherein the snRNA-encoding portion of said snRNA-encoding nucleotide sequence comprises an insertion cassette between two insertion sites, wherein said two insertion sites are formed by digestion with a single Type II double cleavage restriction enzyme capable of cleaving said nucleotide sequence once upstream of the recognition site of said restriction enzyme and once downstream of said recognition site to excise from said vector a restriction fragment that contains [[a]] the recognition site for said restriction enzyme, and wherein said insertion cassette comprises a modification fragment comprising a nucleotide sequence complementary to a target.
43. (Previously presented) The vector of Claim 42 wherein the insertion cassette is contained between nucleotides 1 and 12 of the coding region of said nucleotide sequence.
44. (Previously presented) The vector of Claim 42, wherein the snRNA is selected from the group of snRNAs with splicing functions.

Application No.: 09/804481

Docket No.: WIBR-523-101

45. (Previously presented) The vector of Claim 44, wherein the snRNA is U1 snRNA or U6 snRNA.
46. (Previously presented) The vector of Claim 45, wherein the insertion cassette comprises a modification fragment of about 30 base pairs of DNA.
47. (Canceled)
48. (Previously presented) The vector of Claim 42 wherein the modification fragment is double stranded.
49. (Currently amended) The vector of Claim 42 A recombinant vector comprising an isolated nucleotide sequence encoding an snRNA, wherein the snRNA-encoding portion of said snRNA-encoding nucleotide sequence comprises an insertion cassette between two insertion sites, wherein said two insertion sites are formed by digestion with restriction enzyme BaeI to excise from said vector a restriction fragment that contains a recognition site for said BaeI, and wherein said insertion cassette comprises a modification fragment comprising a nucleotide sequence complementary to a target wherein the restriction enzyme is BaeI.
50. (Previously presented) The vector of Claim 49, wherein the insertion sites comprise the complements of DNA sequences of SEQ ID NO: 2 and SEQ ID NO: 3.
51. (Previously presented) The vector of Claim 42 wherein each insertion site comprises a single stranded overhang and wherein each strand of the modification fragment comprises a nucleotide sequence which is complementary to one of the single stranded overhangs of the insertion sites.
52. (Cancelled)
53. (Cancelled)